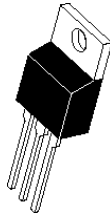
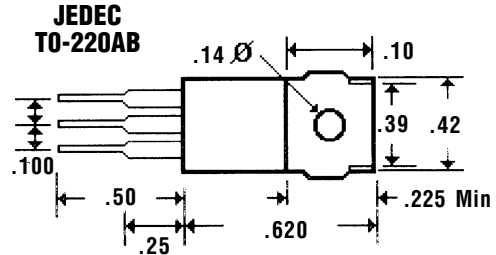


Description



Mechanical Dimensions



Features

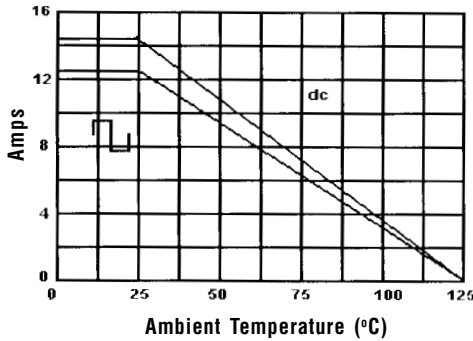
- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

| Electrical Characteristics @ 25°C. | FBR2535CTL & 2545CTL | | Units |
|--|----------------------|-------------------|-------------------------|
| Maximum Ratings | FBR2535CTL | FBR2545CTL | |
| Peak Repetitive Reverse Voltage... V_{RRM} | 35 | 45 | Volts |
| Working Peak Reverse Voltage... V_{RWM} | 35 | 45 | Volts |
| DC Blocking Voltage... V_{DC} Pulse Test 0.5 mS, Duty Cycle 1/140 | 35 | 45 | Volts |
| Average Forward Rectified Current... $I_{F(AV)}$ $T_C = 110^\circ\text{C}$ (Rated V_R) | 12.5 | | Amps |
| Repetitive Peak Forward Surge Current... I_{FM} $T_C = 95^\circ\text{C}$ (Rated V_R , Square Wave, 20KHZ) Per Leg | 25 | | Amps |
| Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 1/2 Sine Wave, Single Phase, 60HZ | 150 | | Amps |
| Repetitive Peak Reverse Surge Current... I_{RSM} @ 2uS PW, F = 1.0 KHZ | 1.0 | | Amps |
| Forward Voltage... V_F Per Leg, 300uS, 2% Duty Cycle @ $I_F = 25$ Amps, 25°C Per Leg, 300uS, 2% Duty Cycle @ $I_F = 12.5$ Amps, 25°C Per Leg, 300uS, 2% Duty Cycle @ $I_F = 12.5$ Amps, 125°C | < 0.55 > | < 0.6 > | Volts Volts Volts |
| DC Reverse Current (@ $V_R = V_{RRM}$)... I_R @ Rated DC Blocking Voltage $T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$ $T_C = 100^\circ\text{C}$ | 5.0 < 500 > | < 500 > | mAmps mAmps mAmps |
| Thermal Resistance, Junction to Case... $R_{\theta JC}$ | 2.0 | | °C / W |
| Voltage Rate of Change (Rated V_R) | 1000 | | V / μS |
| Controlled Avalanche Energy... W_{AVAIL} | 20 | | mJ |
| Operating Temperature Range... T_J | -65 to 125 | | °C |
| Storage Temperature Range... T_{STRG} | -65 to 150 | | °C |

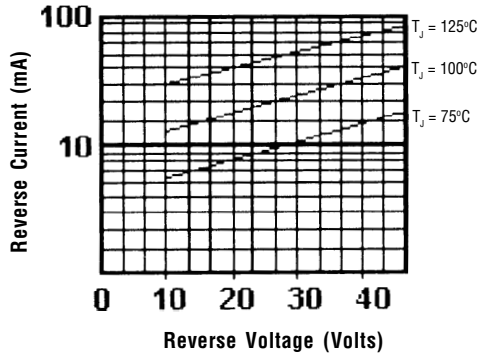
25 Amp SCHOTTKY BARRIER RECTIFIERS

FBR2535CTL & 2545CTL

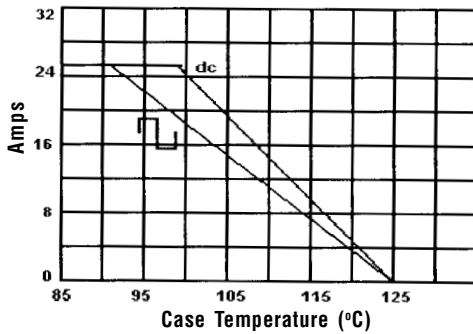
Current Derating, Per Leg



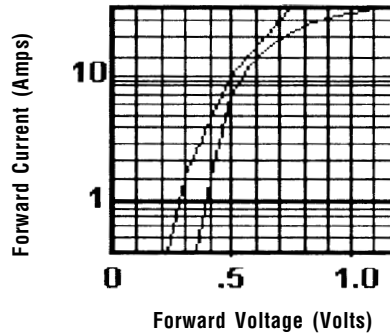
Typical Reverse Current



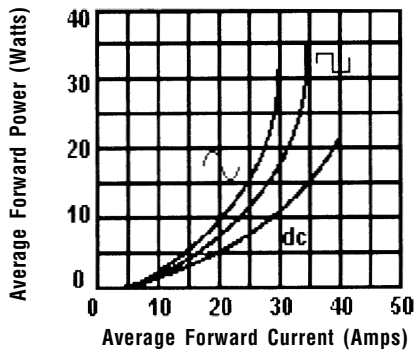
Current Derating



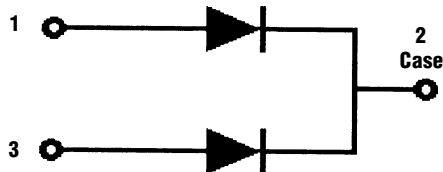
Forward Characteristics



Forward Power Dissipation



Common Cathode, Suffix "C"



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance Junction to Case, Jedec Method.
 3. When Mounted to heat sink, from body.